

**REPORT OF CHANNEL CONDITIONS
400 FEET WIDE OR GREATER**

TO: The Record

FROM: U.S. Army Corps of Engineers
26 Federal Plaza, ATTN: CENAN-OP-ST
New York, NY 10278-0090

RIVER/HARBOR NAME AND STATE:
East River, Battery to Throgs Neck Bridge, New York

**MINIMUM DEPTHS IN
CHANNEL ENTERING FROM SEAWARD**

| NAME OF CHANNEL | DATE OF SURVEY | AUTHORIZED PROJECT | | | LEFT OUTSIDE QUARTER (feet) | LEFT INSIDE QUARTER (feet) | RIGHT INSIDE QUARTER (feet) | RIGHT OUTSIDE QUARTER (feet) |
|---|---|--------------------------------|------------------|--------------|-----------------------------|----------------------------|-----------------------------|------------------------------|
| | | WIDTH (feet) | LENGTH (n miles) | DEPTH (feet) | | | | |
| Reach A: Starts between Castle Williams (Governors Island) and Castle Clinton (Manhattan) to approximately 1,800 feet seaward of the Brooklyn Bridge | File 191, Sheet 2 of 10; 17 Nov 2016 – 30 Jan 2017 | Varies 1,000 To 1,890 | 0.92 | 40 | 39.4 | 39.4 | 39.5 | 36.4 |
| Reach B: From approximately 1,800 feet seaward of the Brooklyn Bridge to approximately 500 feet landward from the Manhattan Bridge | File 191, Shts. 2&3 of 10; 17 Nov 2016 – 30 Jan 2017 | Varies 1,000 To 1,380 | 0.67 | 40 | 15.9 | 45.7 | 40.5 | 34.5 |
| Reach C: From approximately 500 feet landward from the Manhattan Bridge to approximately 675 feet seaward of the Williamsburg Bridge | File 191, Sheet 3 of 10; 17 Nov 2016 – 30 Jan 2017 | Varies 1,000 To 1,270 | 0.82 | 40 | 36.0 | 40.3 | 40.6 | 37.3 |
| Reach D: From approximately 675 feet seaward of the Williamsburg Bridge to approximately 685 feet seaward of GREEN/RED BUOY B w/ LIGHT | File 191, Shts. 3&4 of 10; 17 Nov 2016 – 30 Jan 2017 | 900 | 1.82 | 35 | 36.0 | 35.0 | 34.4 | 34.6 |
| Reach E: From approximately 685 feet seaward of GREEN/RED BUOY B w/ LIGHT to approximately 500 feet landward of Roosevelt Island | File 191, Shts. 4-6 of 10; 17 Nov 2016 – 30 Jan 2017 | Varies 550 To 1,000 | 2.49 | 35 | 34.1 | 40.5 | 35.0 | 35.0 |
| Reach F: From approximately 500 feet landward of Roosevelt Island to approximately 1230 feet landward of Hell Gate Bridge | File 191, Sheet 6 of 10; 17 Nov 2016 – 30 Jan 2017 | Varies 650 To 850 | 1.23 | 35 | 32.0 | 35.1 | 34.2 | 33.0 |
| Reach G: From approximately 1230 feet landward of Hell Gate Bridge to approximately 150 feet landward of GREEN CAN #7 FLOOD | File 191, Shts. 6&7 of 10; 17 Nov 2016 – 30 Jan 2017 | Varies 795 To 1,100 | 1.60 | 35 | 36.5 | 35.3 | 35.3 | 37.2 |
| Reach H: From approximately 150 feet landward of GREEN CAN #7 FLOOD to approximately 125 feet seaward of GREEN CAN #1A | File 191, Shts. 7-9 of 10; 17 Nov 2016 – 30 Jan 2017 | 1,000 | 3.58 | 35 | 32.9 | 36.3 | 35.0 | 25.7 |
| Reach I: From approximately 125 feet seaward of GREEN CAN #1A to approximately 2,460 feet landward of Throgs Neck Bridge | File 191, Shts. 9&10 of 10; 17 Nov 2016 – 30 Jan 2017 | 1,000 | 1.63 | 35 | 37.5 | 36.6 | 37.1 | 35.3 |
| Reach J: From the south end of the channel at the mouth of Newton Creek to approximately 600 feet seaward of Queensboro Bridge | File 191, Shts. 4&5 of 10; 17 Nov 2016 – 30 Jan 2017 | Varies 2,475 To 500 | 1.22 | 30 | 26.5 | 26.6 | 23.8 | 23.3 |
| Reach K: Irregular Area from approximately 600 feet seaward of Williamsburg Bridge to the UN International School (Manhattan) | File 191, Shts. 3&4 of 10; 17 Nov 2016 – 30 Jan 2017 | Varies 175 To 1040 | 1.45 | 35 | 14.7 | | | |

REMARKS:

- All depths are in reference to Mean Lower Low Water
- The channel length is in nautical miles.

EAST RIVER, BATTERY TO THROGS NECK BRIDGE**• Reach A:**

- Shoaling exists along the channel toe of the Left Outside Quarter commencing at the seaward terminus of the reach and continues to the landward terminus of the reach.
- Shoaling exists along the center of the Left Inside Quarter commencing approximately 1,520 feet seaward of RED #2 w/LIGHT and continues landward approximately 620 feet.
- Shoaling exists along the center of the Right Inside Quarter commencing approximately 1,160 feet landward of GREEN #3 w/LIGHT and continues landward approximately 555 feet.
- Shoaling exists along the channel toe of the Right Outside Quarter commencing approximately 600 feet seaward of RED #2 w/LIGHT and continues landward approximately 120 feet landward of GREEN #3 w/LIGHT. A shoal exists along the Right Outside Quarter commencing approximately 920 feet landward of GREEN #3 w/LIGHT and continues approximately 320 feet landward. A shoal exists along the channel toe of the Right Outside Quarter approximately 1,700 feet landward of GREEN #3 w/LIGHT and continues approximately 210 feet.
- The Controlling Depth of -36.4 feet MLLW exists along the channel toe of the Right Outside Quarter approximately 1,160 feet landward of GREEN #3 w/LIGHT.

• Reach B:

- Shoaling exists along the channel toe of the Left Outside Quarter for the majority of the reach.
- A shoal spanning the entire width of the Right Outside Quarter with partial coverage of the Right Inside Quarter commences approximately 1025 feet seaward of the BROOKLYN BRIDGE and continues approximately 260 feet landward. Intermittent shoaling is present along the channel toe of the Right Outside Quarter for the majority of the reach.
- The Controlling Depth of -15.9 feet MLLW exists along the channel toe of the Left Outside Quarter approximately 90 feet landward of the BROOKLYN BRIDGE.

• Reach C:

- Intermittent shoaling exists along the channel toe of the Left Outside Quarter commencing at the seaward terminus of the reach and continues landward approximately 3,020 feet.
- A shoal is present along the channel toe of the Right Outside Quarter commencing approximately 1,290 feet landward of the MANHATTAN BRIDGE and continues landward approximately 85 feet. A spot shoal exists along the center of the Right Outside Quarter approximately 2,850 feet landward of the MANHATTAN BRIDGE.
- The Controlling Depth of -36 feet MLLW exists along the channel toe of the Left Outside Quarter approximately 2,295 feet seaward of the WILLIAMSBURG BRIDGE.

• Reach D:

- Shoaling exists along the channel toe of the Left Outside Quarter commencing approximately 60 feet seaward of the WILLIAMSBURG BRIDGE and extending landward approximately 2,240 feet. Intermittent shoaling exists along the channel toe of the Left Outside Quarter commencing approximately 2,790 landward of RED BUOY #18 w/LIGHT and continues landward approximately 1,350 feet.
- A spot shoal exists along the center of the Right Inside Quarter approximately 2,100 feet seaward of GREEN/RED BUOY B w/LIGHT.
- A spot shoal exists along the center of the Right Outside Quarter approximately 1,385 feet seaward of GREEN/RED BUOY B w/LIGHT.
- The Controlling Depth of -34.4 feet MLLW exists along the Right Inside Quarter approximately 1,840 feet seaward of GREEN/RED BUOY B w/LIGHT.

EAST RIVER, BATTERY TO THROGS NECK BRIDGE

- **Reach E:**
 - Intermittent shoaling exists along the channel toe of the Left Outside Quarter commencing approximately 1,545 feet landward of the ED KOCH QUEENSBORO BRIDGE and continues approximately 5,015 feet landward.
 - Intermittent shoaling exists along the channel toe of the Right Outside Quarter commencing approximately 1,890 feet seaward of the ED KOCH QUEENSBORO BRIDGE and continues to the ED KOCH QUEENSBORO BRIDGE. Shoaling exists along the channel toe of the Right Outside Quarter commencing approximately 410 feet landward of the ED KOCH QUEENSBORO BRIDGE and continues to the landward terminus of the reach.
 - The Controlling Depth of -34.1 feet MLLW exists along the Left Outside Quarter approximately 4,345 feet landward of the ED KOCH QUEENSBORO BRIDGE.
- **Reach F:**
 - Shoaling exists along the channel toe of both the Left Outside Quarter and Right Outside Quarter commencing approximately 2,855 seaward of the ROBERT F. KENNEDY BRIDGE and continues landward to approximately 985 feet landward of the HELL GATE BRIDGE.
 - A small shoal exists along the left edge of the Right Inside Quarter commencing approximately 1,750 feet landward of the ROBERT F. KENNEDY BRIDGE and continues approximately 160 feet. A spot shoal exists along the center of the Right Inside Quarter approximately 900 feet landward of the HELL GATE BRIDGE.
 - The Controlling Depth of -32.0 feet MLLW exists along channel toe of the Left Outside Quarter approximately 40 feet landward of the ROBERT F. KENNEDY BRIDGE.
- **Reach G:**
 - No shoaling exists along this reach.
 - The Controlling Depth of -35.3 feet MLLW exists along the Left Inside and Right Inside Quarters approximately 2025 feet landward and 3025 feet landward, respectively, of the seaward terminus of the reach.
- **Reach H:**
 - Intermittent shoaling is present along the channel toe of the Left Outside Quarter commencing approximately 2,925 feet landward of GREEN CAN #7 and continues landward approximately 1,440 feet. A shoal exists along the channel toe of the Left Outside Quarter commencing approximately 3,100 feet landward of RED #6 w/LIGHT and continues approximately 790 feet landward. A spot shoal exists along the center of the Left Outside Quarter approximately 3,625 feet landward of RED #6 w/LIGHT.
 - Intermittent shoaling is present along channel toe of the Right Outside Quarter commencing approximately 2,670 feet landward of GREEN CAN #7 and continues approximately 2,150 feet landward. A shoal exists along the channel toe of the Right Outside Quarter commencing approximately 285 feet seaward of RED #6 w/LIGHT and continues approximately 634 feet landward. Shoaling is present along the Right Outside Quarter commencing approximately 5,880 feet seaward of the WHITESTONE BRIDGE and continues landward approximately 1,420 feet.
 - The Controlling Depth of -25.7 feet MLLW exists along the channel toe of the Right Outside Quarter approximately 3,526 feet landward of GREEN CAN #7.
- **Reach I:**
 - No shoaling exists along this reach.
 - The Controlling Depth of -35.3 feet MLLW exists along the channel toe of the Right Outside Quarter approximately 80 feet seaward of the landward terminus of the reach.

EAST RIVER, BATTERY TO THROGS NECK BRIDGE

- **Reach J:**

- Shoaling exists along the channel toe of the Left Outside Quarter with an approximate maximum width of 175 feet commencing approximately 1,725 feet landward of GREEN/RED BUOY B w/LIGHT and continues landward approximately 230 feet. A shoal exists along the Quarter line of the Left Outside Quarter and Left Inside Quarter with a maximum width of approximately 55 feet commencing approximately 190 feet seaward of the landward terminus of the reach and continues approximately 190 feet.
- A large shoal exists along the Left Inside, Right Inside, and Right Outside Quarters commencing along the channel toe of the Right Outside Quarter approximately 290 feet seaward of GREEN/RED BUOY B w/LIGHT and continues approximately 1,580 feet landward with its approximate maximum width of 590 feet located approximately 1,275 feet landward of GREEN/RED BUOY B w/LIGHT.
- Shoaling exists along the channel toe of the Right Outside Quarter commencing approximately 2,005 feet landward of GREEN/RED BUOY B w/LIGHT and continues approximately 605 feet landward. Intermittent shoaling exists along the channel toe of the Right Outside Quarter commencing approximately 830 feet seaward of the landward terminus of the reach and continues approximately 830 feet.
- The Controlling Depth of -23.3 feet MLLW exists along the Right Outside Quarter approximately 975 feet landward of GREEN/RED BUOY B w/LIGHT.

- **Reach K:**

- A spot shoal exists approximately 1,920 feet landward of RED BUOY #18 w/LIGHT.
- The Controlling Depth of -14.7 feet MLLW exists approximately 1,920 feet landward of RED BUOY #18 w/LIGHT.